# AUDIOVOX™ CORPORATION
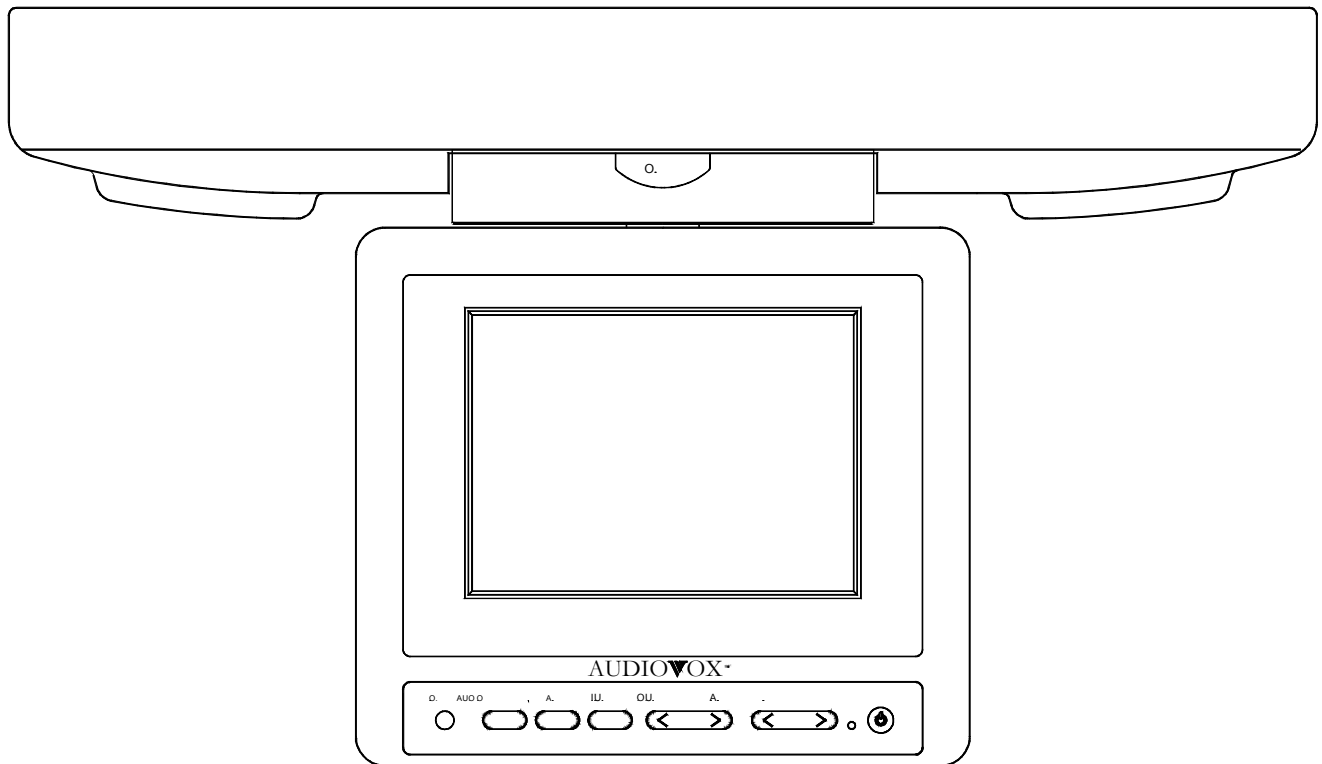
# VE-500
# Low Profile Television

## 5" LCD Drop Down Under Counter TV / Video Monitor

AUDIOVOX·

FEATURES

Multi-function Remote Control
Automatic Channel Programming
2 Independent Video Inputs
12 Volt DC Output for Optional Accessories
Auxiliary Stereo Speaker Output
Cable Ready 125 Channel Tuner
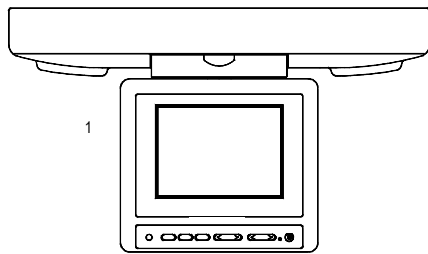Internal Stereo Speakers
Wall or Under Cabinet Mounting

# Installation and Operation Manual

# IMPORTANT SAFETY INFORMATION

1) Unplug the unit before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
2) Use only Audiovox approved accessories.
3) Do not install this video product where it is likely to be exposed to water.
4) Do not obstruct the slots and openings in the cabinet. They are provided for ventilation and are necessary to ensure reliable operation of the TV and to protect it from overheating. This TV should never be placed near or over a radiator or heat register. This TV should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.
5) This TV should be operated only with the AC / DC adapter provided.
6) Do not overload electrical outlets or use extension cords as this can result in a risk of fire or electric shock.
7) Never push objects of any kind into this TV through openings as they may touch dangerous voltage points or short-circuit parts that could result in a fire or electric shock. Never spill liquid of any kind on the TV.
8) **Do not attempt to service this TV yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.**
9) Unplug this TV from the outlet and refer servicing to qualified service personnel under the following conditions:
   a) When the power-supply cord or Adapter is damaged.
   b) If liquid has been spilled, or an object has fallen into the TV.
   c) If the TV has been exposed to water.
   d) If the TV does not operate normally when following the operating instructions.
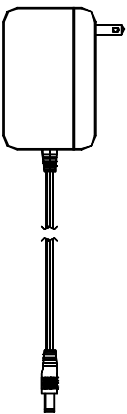   e) If the TV has been dropped or the cabinet has been damaged.

# INCLUDED IN THIS KIT

1      VE-500 Television
2      Audiovox Remote Control (PN 1361613)
3      AC Power Adapter (PN 1541096)
4      Mounting template
5      Hardware Bag

              A      10 - 32 x 2 1/2 Mounting screws (4)
              B      10 - 32 x 3/4 Mounting screws (4)
              C      10 - 32 x 1 3/4 Mounting screws (4)
              D      3/4" Spacer (4)
              E      1/2" Spacer (4)
              F      5/16" Spacer (4)
              G      Countersunk washer (4)
              H      Self Adhesive Wire mounting clip (1)

1

② 

③

A

B

C
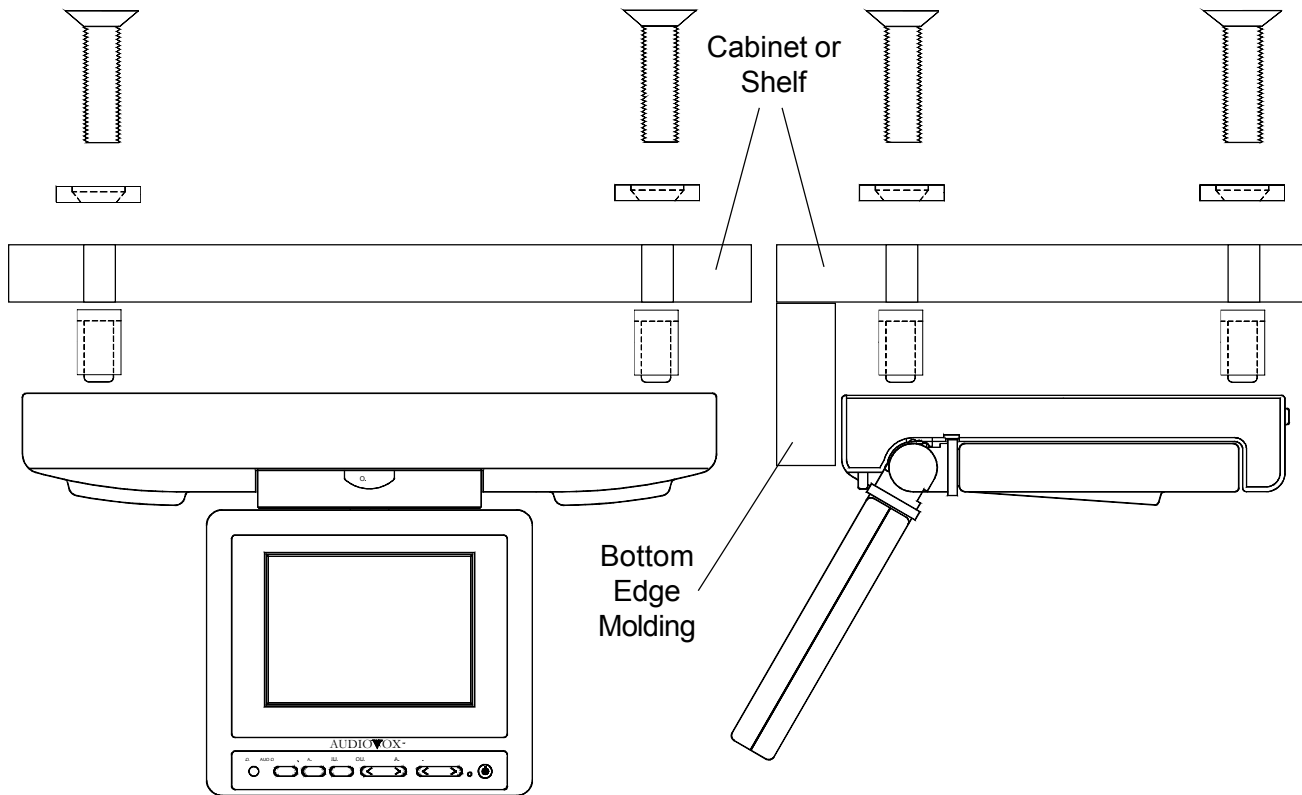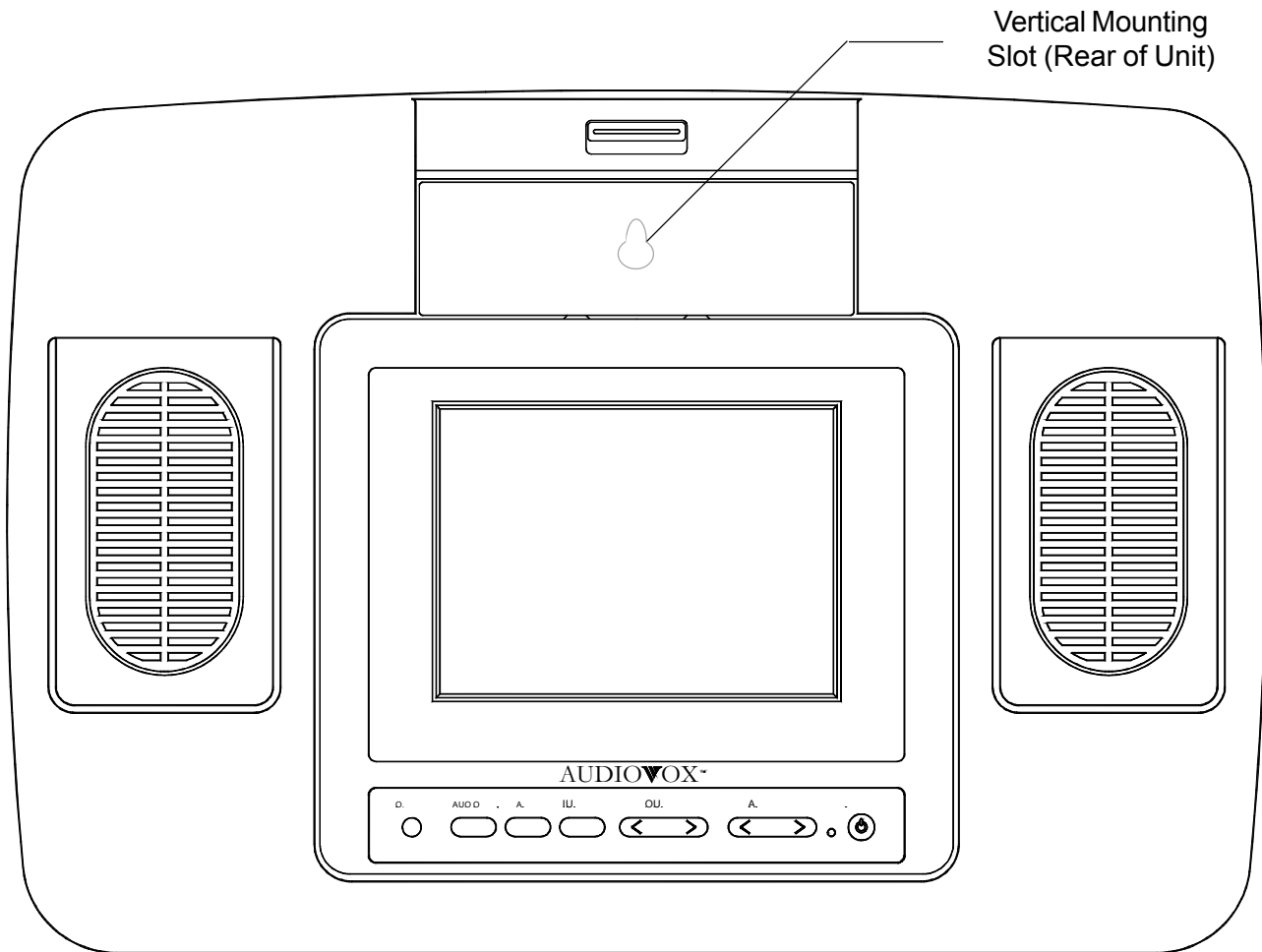
                              G

D

E                        H

F

# UNDER CABINET INSTALLATION

Cabinet or Shelf

Bottom Edge Molding

1) Choose an appropriate mounting location underneath a cabinet or shelf. Close proximity to an electrical outlet and a TV antenna or cable connection will facilitate a neat, easy installation. Do not mount the VE-500 above a range or oven. Be sure that the location chosen will provide adequate access to the electrical connectors on the rear of the unit before continuing.

2) If the location chosen has bottom edge molding it may be necessary to use the mounting spacers provided to effectively lower the VE-500's rotating screen below the molding. Measure the distance between the bottom of the molding and the bottom of the cabinet. A maximum measurement of 1.5" can be accommodated without using spacers. For larger moldings choose a combination of spacers which will reduce the mounting depth to 1.5" or less.

3) Measure the thickness of the bottom of the cabinet or shelf and the spacers chosen. Select the shortest screw length which will pass through the countersunk washer, kitchen cabinet and spacers with between 1/4" and 1 1/2" inches to spare

4) Cut out the template supplied and tape it in place onto the cabinet surface to be drilled. Center punch the four holes indicated on the template and remove the template.

5) Carefully drill four 1/4" holes at the locations marked above. Place the screws chosen through the countersunk washers and then through the holes from the top down.

6) Screw the appropriate spacers on to the screws first, then position the VE-500 and screw it in place using its threaded holes.

7) Plug the AC Power adapter into a nearby electrical outlet and into the receptacle marked DC 12v input at the rear of the VE-500

8) Connect your TV antenna or cable system to the antenna connector on the rear of the VE-500.

9) Route the wires safely away from heat and moisture sources and secure them in place using the self adhesive wire mounting clip provided.
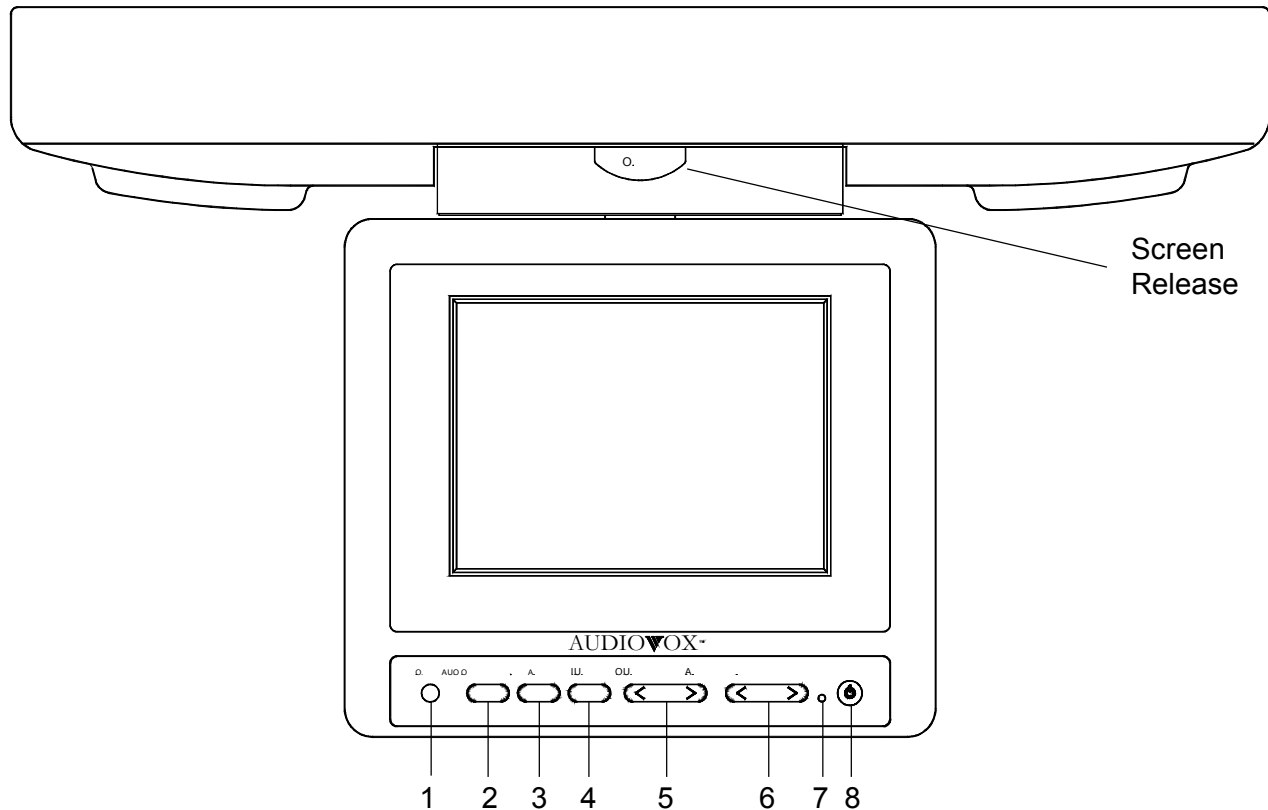
# WALL MOUNT INSTALLATION

Vertical Mounting
Slot (Rear of Unit)

AUDIO**V**OX

Do not attempt to install the VE-500 vertically, unless you are sure that the electric circuits in the chosen area have been turned off at the fuse or circuit panel.  Failure to do this could result in electric shock.
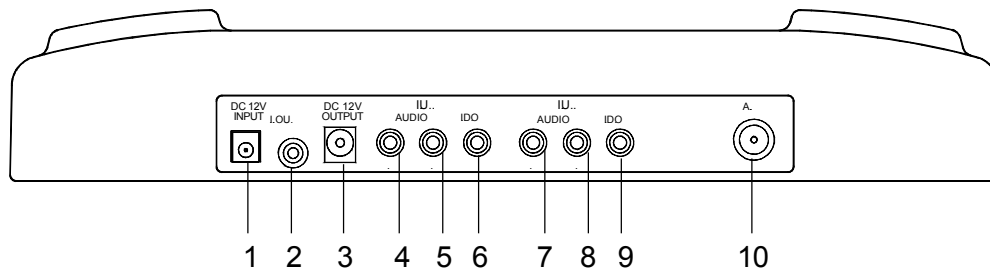
1)   When installing the VE-500 vertically, choose a mounting location at or close to eye level.  Close proximity to an electrical outlet and a TV antenna or cable connection will facilitate a neat, easy installation.
2)   Cut out the template provided and temporarily tape it to the wall at the desired location.  Mark the center of the vertical mounting slot and remove the template.
3)   Determine if a wall stud is present at the chosen location by drilling a 1/16" hole at the marked location.  After penetrating the depth of the wall surface, observe whether or not a structural stud is present.  Caution, if near electrical outlet, there is likely to be electrical wiring present.
4)   If a structural stud is present, a suitable length drywall screw can be screwed directly into it.  Leave approximately 1/4" of the screw protruding from the wall.
       If there is no structural stud present, a drywall anchor from your local hardware store will be necessary. Remember to leave 1/4" of its screw head protruding from the wall.
5)   Hang the VE-500 onto the screw head using the vertical mounting slot at the rear of the unit.
6)   Plug the AC Power adapter into a nearby electrical outlet and into the receptacle marked DC 12v input on the bottom of the VE-500
8)   Connect your TV antenna or cable system to the antenna connector on the bottom of the VE-500.
9)   Route the wires safely away from heat and moisture sources and secure them in place using the self adhesive wire mounting clip provided.
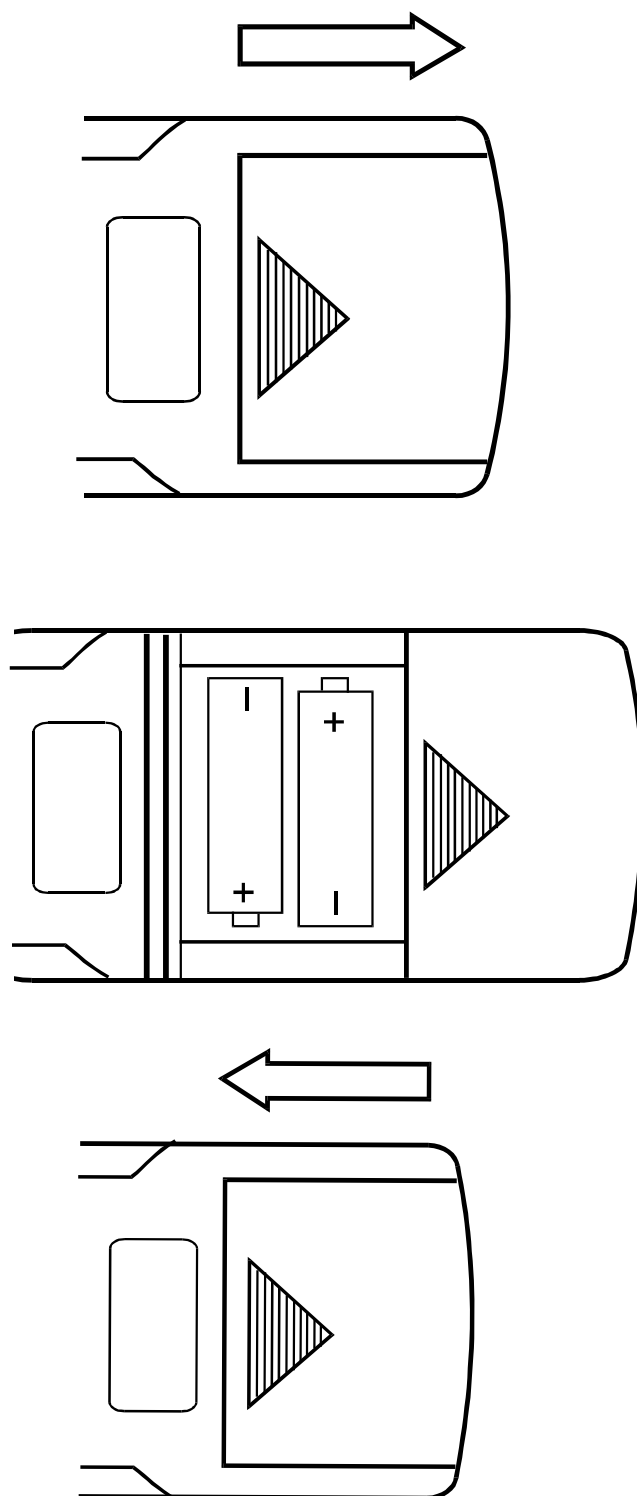
# FRONT PANEL CONTROLS

Screen
Release

1  2  3  4  5  6  7  8

1.  REMOTE INFRARED SENSOR
    This sensor receives signals from the hand
    held remote control.
2.  AUTO PROG. BUTTON
    This button is used to program active TV
    stations into memory. Its operation duplicates
    the function of the AUTO MEMORY button on
    the remote control.
3.  AV/TV BUTTON
    This button is used to select between audio /
    video sources.  Its operation duplicates the
    function of the TV / VIDEO button on the remote
    control
4.  PICTURE BUTTON
    This button allows setting of the picture
    contrast, brightness and color.  Its operation
    duplicates the PICTURE SELECT button on
    the remote control unit.

5.  VOLUME UP/DOWN BUTTONS
    Press to increase or decrease the TV sound
    level.
6.  CHANNEL UP/DOWN BUTTONS
    These buttons are used to change the channel
    or make adjustments to the picture quality.
    Their operation duplicates the CHANNEL UP/
    DOWN button on the remote control unit.
7.  LED POWER INDICATOR
    Illuminates whenever power is applied to the
    VE-500
8.  POWER BUTTON
    This button will alternately turn the VE-500 on
    or off

# REAR PANEL CONNECTIONS



1) 12V DC INPUT
   Connect to power adapter supplied with
   VE-500
2) STEREO AUDIO OUTPUT
   Used for additional optional external
   speaker
3) 12V DC OUTPUT (300 mA Max)
   Used to provide power to accessory
   equipment.
4) INPUT 1 RIGHT AUDIO TERMINAL
   Connect to right audio output from
   external audio source
5) INPUT 1 LEFT AUDIO TERMINAL
   Connect to left audio output from external
   audio source

6) INPUT 1 VIDEO TERMINAL
   Connect to video output from external
   source
7) INPUT 2 RIGHT AUDIO TERMINAL
   Connect to right audio output from
   external audio source
8) INPUT 2 LEFT AUDIO TERMINAL
   Connect to left audio output from external
   audio source
9) INPUT 2 VIDEO TERMINAL
   Connect to video output from external
   source
10) ANTENNA CONNECTOR
    Connect to antenna or cable system -
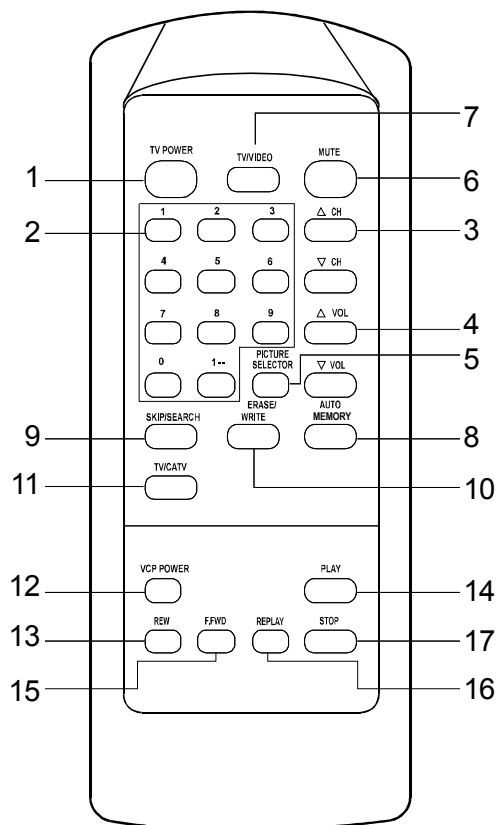    adapters not supplied may be required

# BATTERY INSTALLATION

1) Turn the Remote Control face down.  Press down on the ridged area of the battery cover and slide it off.
2) Install the two "AAA" batteries included as shown.  Make sure that proper polarity (+ or -) is observed.
3) Slide the cover back until it clicks.

# OPERATION

The remote control will operate Audiovox Televisions and Video Cassette Players. It is not a universal remote control and will not control equipment from other manufacturers.

If a universal remote control is to be used with the VE-500, choose the remote encoding scheme for Action Televisions when programming the remote.

```
        TV POWER    TV/VIDEO   MUTE           7
1                                             6
           1    2    3    △ CH                3
2
           4    5    6    ▽ CH
           7    8    9    △ VOL               4
                      PICTURE
                      SELECTOR  ▽ VOL         5
           0    1··
                      ERASE/    AUTO
        SKIP/SEARCH   WRITE     MEMORY
9                                             8
        TV/CATV
11                                            10

        VCP POWER              PLAY
12                                            14
        REW    F.FWD   REPLAY  STOP
13                                            17
15                                            16
```

## POSITIONING THE SCREEN

Pushing the screen release forward will unlock the screen and it will swing downward. Pivot the screen forward until a comfortable viewing angle is reached. The screen may also be rotated from side to side. Do not force the screen beyond its rotational limit of 15 degrees. Once a comfortable position has been found, the internal detents will hold the screen in this position. The VE-500 is now ready for use. In vertical mount applications it is not necessary to release and position the screen. Pressing the power button on the TV or the remote will turn the system on or off. Remember to turn the unit off and pivot the screen to the locked position when not in use.

# REMOTE CONTROL FUNCTIONS

1.  POWER ON/OFF
    Press this button to turn on the TV.  The channel number or current video source will be displayed on screen, and the picture will appear in a few seconds.  Press the button again to turn the TV off.
2.  NUMERICAL BUTTONS
    Use these buttons to make a direct channel selection.  The channel number chosen will be displayed on the screen for 4 seconds.  Channel selection is carried out with 0-9 keys (0-99ch) and "1—" key when in cable mode (100-125ch).
3.  CHANNEL UP/DOWN BUTTONS
    Use these buttons to advance to the next higher or lower channel.
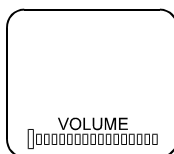4.  VOLUME UP/DOWN BUTTONS
    Use these buttons to raise or lower the sound level.  They are also used to make picture adjustments in picture selector mode.
5.  PICTURE SELECT BUTTON
    Each time this button is pressed, the on screen picture adjustment display cycles through "adjustment bars" for CONTRAST, BRIGHTNESS, COLOR and TINT.  Once the desired adjustment bar is displayed, use the VOLUME UP/DOWN buttons to adjust the setting.  The display will automatically turn off if no adjustments are made within 6 seconds, or if any other button is depressed.
6.  MUTE BUTTON
    Press this button to cut off all sound.  The screen will display the volume adjustment bar for 6 seconds, indicating that the sound has been turned off.  Pressing the button again restores sound to the previously set level.  The mute feature may also be released by pressing the VOLUME UP/ DOWN BUTTONS.

```
 _____
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|                |
|                |
|     VOLUME     |
| []ooooooooooooo|
|_____|
```

7.  TV/VIDEO BUTTON
    Press this button to use an alternate audio or video source, such as a video camera or VCP.  Each time the button is pressed, the Audio / Video source will change in the following sequence VIDEO 1, VIDEO 2 and TV
8.  AUTO MEMORY BUTTON
    When the AUTO MEMORY button is depressed, all channels in TV or CATV mode are searched and tuned and all  the channels with signals detected are automatically stored.
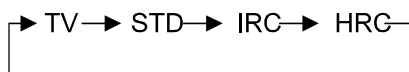9.  SKIP/SEARCH BUTTON
    This button selects between SKIP and SEARCH mode.  In "SKIP mode" the TV only stops on channels that are programmed into memory when the CHANNEL UP/DOWN buttons are used.  When SKIP mode is off, the TV is in search mode and will stop on all active channels.
10. ERASE/WRITE BUTTON
    When tuned to a channel, press this button to store or erase the channel from memory.  The stored channel numbers are displayed in "GREEN" on the screen, and the non-stored channel numbers are in "RED".  When using the CHANNEL UP/DOWN buttons, with the skip mode on, the VE-500 will tune only to the stored channels .
11. TV/CATV BUTTON
    Used to select regular 69 channel Broadcast TV (TV) or 125 Channel Cable TV (STD), (HRC) Cable, or (IRC) Cable.

```
   ┌─► TV ─► STD ─► IRC ─► HRC ─┐
   │                            │
   └────────────────────────────┘
```

# REMOTE CONTROLLED VIDEO CASSETTE PLAYER FUNCTIONS

The VE-500's remote control incorporates functions for operating an optional Audiovox VCP.  Due to the directional nature of infrared remote controls, be certain to point the remote control at the sensor on the VCP, when attempting to control it.  These features can only be used with Audiovox Video Cassette Players.  When using another brand VCP, its own remote control must be used.

12. POWER BUTTON
   This button is used to turn the VCP on and off.
13. "REW" REWIND BUTTON
   If this button is pushed while the tape is stopped, the tape will rewind.  If this button is pushed while the tape is playing, the VCP will go into rewind search mode.  For more information on search feature of the VCP owner's manual.
14. PLAY BUTTON
   Press this button to activate play mode while a tape is loaded into the VCP.  This button may also be used to disengage search and pause modes.  For more information, consult the VCP owner's manual.
15. "F.FWD." FAST FORWARD BUTTON
   If this button is pushed while the tape is stopped, tape will fast forward.  If this button is pushed while the tape is playing, the VCP will go into fast forward search mode.  For more information on search feature of the VCP, consult the VCP owner's manual.
16. REPLAY BUTTON
   Pressing this button will rewind tape and immediately begin playback when the tape is fully rewound
17. STOP BUTTON
   Press this button to stop the tape.

## CHANNEL TUNING SET UP

In addition to normal broadcast reception of VHF and UHF channels, if you are a Cable TV subscriber, your new TV is capable of receiving many unscrambled Cable channels without the use of a converter box.  When set to Broadcast TV it receives CH2-CH69.  When set to one of the CATV modes (STD, HRC, or IRC) it receives CH1-CH125.  Follow this simple procedure to make channel tuning more convenient.

1. Use the TV/CATV button on the Remote Control to select the broadcast system appropriate for your home.  The system selected will be displayed on the screen.  If you have an external roof mounted or rabbit ear antenna, select "TV," if you have CABLE TV, select either "STD", "HRC" or IRC ("STD" is used by the majority of Cable Systems.  Check with your cable system operator).
2. Press the AUTO MEMORY button on the Remote Control Unit or the TV.  You will see the TV cycle through all channels.  The built-in Microprocessor will automatically store each channel that is actively broadcasting in your area.
3. To view only strong clear channels, press the SKIP/SEARCH button on the Remote Control Unit  until "SKIP MODE ON" is displayed on the bottom of the screen.  The TV will now tune only to strong, active channels, when the UP or DOWN buttons are used on the monitor or remote control.
   To view a weak or marginal channel, press the SKIP/SEARCH button on the Remote Control Unit until "SKIP MODE OFF" is displayed on the bottom of the screen.  Tune to the desired channel using the CHANNEL UP/DOWN button or go directly to the channel by direct access using the 0-9 buttons on the Remote Control.

<div align="center">

| SKIP MODE ON | SKIP MODE OFF |
|:---:|:---:|

</div>

4. To ERASE a channel, press the ERASE/WRITE button on the Remote Control Unit until "MANUAL MEMORY XX ERASE" is displayed on screen.  To STORE a channel, press the button until "MANUAL MEMORY  XX ADD" is displayed on screen.

# TROUBLESHOOTING

| Problem | Solution |
|---|---|
| Poor Reception | Verify Tuner setting matches Antenna / Cable broadcast system.  Try other system types with the TV/CATV BUTTON of the remote control. |
| Remote control will not function | Verify that the sensor on the VE-500 is not obstructed. Verify that the infrared LED on the transmitter is not obstructed. Check the condition of the remote control batteries. |
| Black and White Reception | Verify Tuner setting matches Antenna / Cable broadcast system.  Try other system types with the TV/CATV |

# TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Illumination: | Edge Light Tube |
| Backlighting Life Expectancy: | 10,000 Hrs. |
| Pixels: | 140,400 |
| Resolution: | 600 X 234 |
| Pixel Configuration: | Delta |
| Power Supply: | 12 Volts + or - 10% @1.3-1.5 A |
| Operating Temperature: | 0  - 40  C |
| Storage Temperature: | -20  - 80  C |
| Sensitivity: | 35 db |
| Video System: | NTSC |
| Audio output: | 1.5W @ 4 |